PATENT COOPERATION TREATY

| From the INTERNATIONAL SEARCHING AUTHORITY | , | EAT Y | | | |
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| To: KEVIN B. LAURENCE STOEL RIVES LLP ONE UTAH CENTER 201 SO. MAIN STREET, SUITE 1100 SALT LAKE CITY, UT 84111 | V | PCT WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY | | | |
| | Date of mailing | (PCT Rule 43 <i>bis</i> .1) | | | |
| [Ali- | (day/month/year | 21 May Danz | | | |
| Applicant's or agent's file reference 11502/32 PCT | FOR FURTHE | R ACTION See paragraph 2 below | | | |
| International application No. Intern | national filing date (day/month/year) | Priority date (day/month/year) | | | |
| PCT/US05/10469 28 Ms | arch 2005 (28.03.2005) | 26 March 2004 (26.03.2004) | | | |
| International Patent Classification (IPC) or both | national classification and IPC | 200 (20.03.2001) | | | |
| IPC: A61B 17/08(2006.01); A61F 2/06(2006.01) USPC: 606/151,153;623/1.13 Applicant | | | | | |
| INTEGRATED VASCULAR INTERVENTION | AL TECHNOLOGIES | | | | |
| 1. This opinion contains indications relating to the following items: Box No. I Basis of the opinion | | | | | |
| that written opinions of this International Sea If this opinion is, as provided above, consider | a and the chosen IPEA has notified trehing Authority will not be so considered to be a written opinion of the I riate, with amendments, before the end of 22 months from the priority date, | he International Bureau under Rule 66.1bis(b) lered. PEA, the applicant is invited to submit to the grization of 3 months from the data of molling. | | | |
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| Name and mailing address of the ISA/ US Mail Stop PCT, Attn: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 | Date of completion of this opinion 22 April 2007 (22.04.2007) | Darwin P. Erezo Mary Neem | | | |

Facsimile No. (571) 273-3201
Form PCT/ISA/237 (cover sheet) (April 2005)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/US05/10469

| Box No. I Basis of this opinion | | | | |
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| | | | | |
| 1. With | regard to the language, this opinion has been established on the basis of: | | | |
| \boxtimes | the international application in the language in which it was filed | | | |
| | a translation of the international application into . which is the language of a translation furnished for the contract of | | | |
| | international search (Rules 12.3(a) and 23.1(b)). | | | |
| 2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of: | | | | |
| a. | type of material | | | |
| | a sequence listing | | | |
| | table(s) related to the sequence listing | | | |
| | table(o) to take a ductice listing | | | |
| ъ. | format of material | | | |
| | on paper | | | |
| | in electronic form | | | |
| | | | | |
| c. | time of filing/furnishing | | | |
| | contained in the international application as filed. | | | |
| | filed together with the international application in electronic form. | | | |
| | | | | |
| | furnished subsequently to this Authority for the purposes of search. | | | |
| 3. 🗌 | In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished. | | | |
| 4. Additi | onal comments: | | | |
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Form PCT/ISA/237(Box No. I) (April 2005)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US05/10469

| Box No. V | Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial |
|-----------|---|
| | applicability; citations and explanations supporting such statement |

| 1. Statement | | |
|-------------------------------|--|-----------|
| Novelty (N) | Claims 6, 15-18, 22-25 and 49-51 | YES |
| Inventive step (IS) | Claims 1-5,7-14, 19-21 and 26-48 Claims 6 and 49-51 | NO |
| | Claims 1-5 and 7-48 | NO |
| Industrial applicability (IA) | Claims <u>1-51</u> Claims <u>NONE</u> | YES NO |

2. Citations and explanations:

Claims 1-5, 7-14, 19-21 and 26-48 lack novelty under PCT Article 33(2) as being anticipated by US 6,428,550 to Vargas et al. (claim 1-5, 7-11 and 30-40) Vargas discloses a method for connecting a vessel to another vessel comprising obtaining a graft 30, a stent 10 attached to said graft; anastomosing the first end of the graft vessel to a side of a first vessel 32, and anastomosing the second end of the graft vessel to a second vessel, wherein the device comprises two rings 20,22; wherein the stent is attached to the graft vessel; wherein an operator having a cutting means 152 for cutting the first vessel.

(claims 12-14, 19-21, 26-29 and 41-48) Vargas discloses a graft vessel device comprising a graft vessel 30; an anastomosis device 20,22; and a stent 10, wherein the stent is attached to the exterior of the graft vessel; and an obturator comprising a cutting element 152.

Claims 15-18 and 22-25 lack an inventive step under PCT Article 33(3) as being obvious over Vargas et al.

Vargas is silent with regards to suture, adhesives or polymeric substances for adhering the stent to the graft vessel. However, it would have been obvious to one of ordinary skill in the art at the time the invention was made to use either a suture, adhesive or polymeric substance to secure the stent to the graft vessel because the use of such means would reinforce the connection between the stent and the graft vessel. Moreover, the use of such items are well known in the art.

Claims 6 and 49-51 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest an anastomosis method comprising, inter alia, applying a second amount of force to the first vessel ring to eject the first vessel ring from the ring retainer, wherein the second amount of force is greater than the first amount of force a first vessel ring having an everted portion of a first vessel, a second vessel having an everted portion of a second vessel. The prior art also fails to teach the use of a tearaway sheath to secure the second end of the graft vessel to second vessel.

Claims 1-51 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.

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